Test Report
Concrete Compresive strength

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. G.Venkategowda
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	concrete
Sample No	9
Date	3-May-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	30	7	8.26	150*150*150	2447.41	526.00	0.0225	23.38		
2	30	7	8.28	150*150*150	2453.33	531.00	0.0225	23.60	23.63	
3	30	7	8.06	150*150*150	2388.15	538.00	0.0225	23.91		23.90
4	30	7	8.46	150*150*150	2506.67	548.00	0.0225	24.36		
5	30	7	8.30	150*150*150	2459.26	546.00	0.0225	24.27	24.16	
6	30	7	8.24	150*150*150	2441.48	537.00	0.0225	23.87		

Results: 7-days Compressive strength of cement is 23.90 N/mm2

Note:

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AE-01

Test Report
Concrete Compresive strength

Project Name	Construction of Compound wall and other works to DWCC in ward no.02 of Yelahanka Sub Division
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. G.Venkategowda
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	Bay
Material	concrete
Sample No	10
Date	3-May-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	30	7	8.36	150*150*150	2477.04	528.00	0.0225	23.47		
2	30	7	8.38	150*150*150	2482.96	533.00	0.0225	23.69	23.72	
3	30	7	8.16	150*150*150	2417.78	540.00	0.0225	24.00		23.99
4	30	7	8.56	150*150*150	2536.30	550.00	0.0225	24.44		
5	30	7	8.40	150*150*150	2488.89	548.00	0.0225	24.36	24.25	
6	30	7	8.34	150*150*150	2471.11	539.00	0.0225	23.96		

Results: 7-days Compressive strength of cement is 23.99 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. G.Venkategowda
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	concrete
Sample No	12
Date	3-May-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	30	7	8.55	150*150*150	2533.33	532.00	0.0225	23.64	23.90	24.16
2	30	7	8.57	150*150*150	2539.26	537.00	0.0225	23.87		
3	30	7	8.35	150*150*150	2474.07	544.00	0.0225	24.18		
4	30	7	8.75	150*150*150	2592.59	554.00	0.0225	24.62	24.43	
5	30	7	8.59	150*150*150	2545.19	552.00	0.0225	24.53		
6	30	7	8.53	150*150*150	2527.41	543.00	0.0225	24.13		

Results: 7-days Compressive strength of cement is 24.16 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. G.Venkategowda
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	Bay
Material	concrete
Sample No	2
Date	22-May-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	30	28	8.75	150*150*150	2592.593	1165	0.0225	51.78	53.19	53.16
2	30	28	8.65	150*150*150	2562.963	1213	0.0225	53.91		
3	30	28	8.55	150*150*150	2533.333	1212	0.0225	53.87		
4	30	28	8.85	150*150*150	2622.222	1198	0.0225	53.24	53.13	
5	30	28	8.75	150*150*150	2592.593	1197	0.0225	53.20		
6	30	28	8.85	150*150*150	2622.222	1191	0.0225	52.93		

Results: 28-days Compressive strength of cement is 53.16 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. G.Venkategowda
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	concrete
Sample No	9
Date	24-May-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (l x W x H)	Density (kg/m³)	Max. Load (KN)	Area (m²)	Compressive Strength (N/mm²)	Avg. Sample Strength	Avg. Strength
1	30	28	9.38	150*150*150	2779.26	1178.00	0.0225	52.36		
2	30	28	9.16	150*150*150	2714.07	1226.00	0.0225	54.49	53.79	
3	30	28	9.06	150*150*150	2684.44	1227.00	0.0225	54.53		
4	30	28	9.38	150*150*150	2779.26	1211.00	0.0225	53.82		53.70
5	30	28	9.46	150*150*150	2802.96	1206.00	0.0225	53.60	53.60	
6	30	28	9.16	150*150*150	2714.07	1201.00	0.0225	53.38		

Results: 28-days Compressive strength of cement is 53.70 N/mm2

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of Compound wall and other works to DWCC in ward no.02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. G.Venkategowda
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	Bay
Material	concrete
Sample No	11
Date	24-May-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m³)	Max. Load (KN)	Area (m²)	Compressive Strength (N/mm²)	Avg. Sample Strength	Avg. Strength
1	30	28	9.57	150*150*150	2835.56	1182.00	0.0225	52.53	53.97	53.87
2	30	28	9.35	150*150*150	2770.37	1230.00	0.0225	54.67		
3	30	28	9.25	150*150*150	2740.74	1231.00	0.0225	54.71		
4	30	28	9.57	150*150*150	2835.56	1215.00	0.0225	54.00	53.78	
5	30	28	9.65	150*150*150	2859.26	1210.00	0.0225	53.78		
6	30	28	9.35	150*150*150	2770.37	1205.00	0.0225	53.56		

Results: 28-days Compressive strength of cement is 53.87 N/mm2

Note:

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Test Report
Consistency test

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Plain cement concrete(1:4:8) for Road
Contractor	Sri. G.Venkategowda
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Date	7-Apr-2019

Sl. No.	Description	Trial 1	Trial 2	Trial 3	Trial 4	Trial 4
1	Weight of Cement	400	400	400	400	400
2	Percentage of water added (%)	27	28.5	29.5	30	30.5
3	Weight of Water (gm)	108	114	118	120	122
4	Initial Reading of Plunger (mm)	40	40	40	40	40
5	Difference (mm)	18	15	12	7	6

Results: Standard Consistency of Cement: 30.50%

Note:

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Test Report
Soundness test

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Plain cement concrete(1:4:8) for Road
Contractor	Sri. G.Venkategowda
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Date	7-Apr-2019

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	11	10	11
2	Final Distance between the indicator points of Lechatelier mould	13	12	13
3	Difference or expansion	2	2	2
4	Average Differences or Expansion in mm	2.00		

Results: Difference in Expansion of Cement: 3.33mm

Comments: Maximum allowable Expansion of cement is 10mm.

Note:

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Test Report
Gradation test

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Plain cement concrete(1:4:8) for Road
Contractor	Sri. G.Venkategowda
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Fine Aggregates
Sample No	1
Date	7-Apr-2019

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone II Specification for PQC
2	4.75 mm	13	6.50	6.50	93.50	90-100	
3	2.36 mm	18	9.00	15.50	84.50	75-100	
4	1.18 mm	11	5.50	21.00	79.00	55-90	
5	600 µ	45	22.50	43.50	56.50	35-59	
6	300 µ	57	28.50	72.00	28.00	8-30	
7	150 µ	42	21.00	93.00	7.00	0-10	

Note:

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AE-02

Test Report
Water absorption test

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Plain cement concrete(1:4:8) for Road
Contractor	Sri. G.Venkategowda
Test Method	IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Coarse aggregates
Sample No	1
Date	5-Apr-2019

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of SSD sample	W_1 g	761	763	
2	Aggregates Immersed in	W_2g	2050	2045	
3	Weight of Saturated Aggregate in water	W_3g = W_2- W_1	1289	1282	
4	dry aggregate in Air	W_3 g	2085	2070	
5	Volume of the Aggregate	W_3- W_a	796	788	
6	Aggregate	W_4g	2046	2041	
7	Specific Gravity	W_4/(W_3- W_a)	2.57035	2.5901	2.58
8	Apparent Specific Gravity	W_4/(W_4- W_a)	2.70277	2.68906	2.70
9	Water Absorption	(W_4- W_3)*100/ W_4	1.91	1.42	1.67

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

Note:

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Test Report
Aggregate Gradation

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Granular sub Base
Contractor	Sri. G.Venkategowda
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	bay
Material	Coarse Aggregates
Sample No	1
Date	15-Mar-2019

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	75	0	0	0	100	100	Gradation satisfies the MORT&H Specification for GSB
2	53	392	9.8	9.8	90.2	80-100	
3	26.5	699	17.48	27.28	72.72	55-90	
4	9.5	894	22.35	49.63	50.37	35-65	
5	4.75	395	9.88	59.51	40.49	25-55	
6	2.36	393	9.83	69.34	30.66	20-40	
7	0.425	701	17.53	86.87	13.13	10-15	
8	0.075	399	9.98	96.85	3.15	<5	

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Note:

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Test Report
Aggregate Gradation

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Granular sub Base
Contractor	Sri. G.Venkategowda
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	bay
Material	Coarse Aggregates
Sample No	2
Date	15-Mar-2019

Weight of Sample: 4000 gms

Sl. No.	I.S. Sieve size (mm)	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	75	0	0	0	100	100	Gradation satisfies the MORT&H Specification for GSB
2	53	393	9.83	9.83	90.17	80-100	
3	26.5	700	17.5	27.33	72.67	55-90	
4	9.5	895	22.38	49.71	50.29	35-65	
5	4.75	396	9.9	59.61	40.39	25-55	
6	2.36	394	9.85	69.46	30.54	20-40	
7	0.425	702	17.55	87.01	12.99	10-15	
8	0.075	400	10	97.01	2.99	<5	

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Note:

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Test Report
Field Density Test by Sand Replacement Method

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Granular sub Base
Contractor	Sri. G.Venkategowda
Test Method	IS: 2720 (Part - 16) 1963 & Specification for Road & Bridge Works,
Location	Bay
Material	Granular sub Base
Sample No	1
Date	19-Mar-2019

Test Hole No	1
MDD	2.24
OMC in %	3.2
Bulk Density Ys	1.392
Weight of Sand In cone W1 (gm)	1195
Weight Of Wet soil From Hole (W2)	4324
Wt Of Sand +Cylinder Before Pouring (W3)gm	17000
Wt Of Sand +Cylinder After Pouring (W4) gm	13174
Wt Of Sand In Hole: W5 = W3 - W4- W1 (gm)	2631
Volume of Hole. V= W5/ Ys	1890.09
Bulk Density Yb= W2/V (gm/cc)	2.29
Moisture Meter Reading (%)	1.65
Moisture Content : w (From Graph In %)	3.34
Dry Density Yd = Yb/(1+W/100)	2.21
Field Compaction(%)	98.83

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Note:

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Test Report
Field Density Test by Sand Replacement Method

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Granular sub Base
Contractor	Sri. G.Venkategowda
Test Method	IS: 2720 (Part - 16) 1963 & Specification for Road & Bridge Works,
Location	bay
Material	Granular sub Base
Sample No	3
Date	19-Mar-2019

Test Hole No	**3**
MDD	2.24
OMC in %	3.20
Bulk Density Ys	1.39
Weight of Sand In cone W1 (gm)	1195.00
Weight Of Wet soil From Hole (W2)	4431.00
Wt Of Sand +Cylinder Before Pouring (W3)gm	17000.00
Wt Of Sand +Cylinder After Pouring (W4) gm	13125.00
Wt Of Sand In Hole W5 = W3 - W4- W1 (gm)	2680.00
Volume of Hole. V= W5/ Ys	1925.29
Bulk Density Yb= W2/V (gm/cc)	2.30
Moisture Meter Reading (%)	1.54
Moisture Content : w (From Graph In %)	3.32
Dry Density Yd = Yb/(1+W/100)	2.23
Field Compaction(%)	99.44

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Note:

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Test Report
Field Density Test by Sand Replacement Method

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Granular sub Base
Contractor	Sri. G.Venkategowda
Test Method	IS: 2720 (Part - 16) 1963 & Specification for Road & Bridge Works,
Location	bay
Material	Coarse Aggregates
Sample No	6
Date	18-Mar-2019

Test Hole No	6
MDD	2.24
OMC in %	3.20
Bulk Density Ys	1.39
Weight of Sand In cone W1 (gm)	1195.00
Weight Of Wet soil From Hole (W2)	4331.00
Wt Of Sand +Cylinder Before Pouring (W3)gm	17000.00
Wt Of Sand +Cylinder After Pouring (W4) gm	13169.00
Wt Of Sand In Hole: W5 = W3 - W4- W1 (gm)	2636.00
Volume of Hole: V= W5/ Ys	1893.68
Bulk Density Yb= W2/V (gm/cc)	2.29
Moisture Meter Reading (%)	1.54
Moisture Content w (From Graph In %)	3.34
Dry Density Yd = Yb/(1+W/100)	2.21
Field Compaction(%)	98.80

Note:

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Test Report
Concrete Compresive strength

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Covering Slab
Contractor	Sri. G.Venkategowda
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Concrete
Sample No	1
Date	21-May-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m³)	Max. Load (KN)	Area (m²)	Compressive Strength (N/mm²)	Avg. Sample Strength	Avg. Strength
1	20	7	6.79	150*150*150	2011.85	320	0.0225	14.22		
2	20	7	6.83	150*150*150	2023.70	310	0.0225	13.78	14.00	
3	20	7	6.69	150*150*150	1981.93	315	0.0225	14.00		14.13
4	20	7	7.01	150*150*150	2077.04	318	0.0225	14.13		
5	20	7	6.82	150*150*150	2020.74	325	0.0225	14.44	14.27	
6	20	7	6.79	150*150*150	2012.15	320	0.0225	14.22		

Results: 7-days Compreasive strength of cement is 14.13 N/mm2

Note:

i. The results indicated above are based on the tests carried out on the sample at site.
ii. The results relate only to the items tested.
iii. This test report should not be reproduced except in full, without written approval of this laboratory.
iv. Any query regarding the report must be reported immediately.

Team For You

TEAM FOR YOU BANGALORE

Authorised Signature

AE-2 A.E. AE-02

Test Report
Concrete Compresive strength

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Mix Type	Covering Slab
Contractor	Sri. G.Venkategowda
Test Method	IS : 4031 [part 6]-1988 & Specification for Road & Bridge Works, MORTh, Rev. V
Location	Bay
Material	Concrete
Sample No	1
Date	11-Jun-2019

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m³)	Max. Load (KN)	Area (m²)	Compressive Strength (N/mm²)	Avg. Sample Strength	Avg. Strength
1	20	28	7.92	150*150*150	2346.67	523.00	0.0225	23.24	23.42	23.44
2	20	28	7.82	150*150*150	2317.04	528.00	0.0225	23.47		
3	20	28	7.73	150*150*150	2290.37	530.00	0.0225	23.56		
4	20	28	7.90	150*150*150	2340.74	531.00	0.0225	23.60	23.45	
5	20	28	7.93	150*150*150	2349.63	523.00	0.0225	23.24		
6	20	28	7.82	150*150*150	2317.04	529.00	0.0225	23.51		

Results: 28-days Compressive strength of cement is 23.44 N/mm2

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AE-2 A.E.E KE-02

Test Report
Solid block

Project Name	Construction of Compound wall and other works to DWCC in ward no:02 of Yelahanka Sub Division.
Client	Executive Engineer-Yelahanka Division
Job No	TFU/BBMP/EE/YLK/W-2/P-3296/2018-19/QR
Contractor	Sri. G.Venkategowda
Location	Bay
Material	Solid block
Sample No	1
Date	20-May-2019

SL.NO	Failure Load in KN	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm	REMARKS
1	471	5.80	5.88	
2	469	5.90		
3	474	5.95		

Results: Compressive strength of solid block is 5.88 N/mm2

Note:

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